

WHAT IS CLAIMED IS:

Sub. a1> 1. A golf club shaft having a plurality of fiber reinforced resinous layers which are layered one upon another in a winding state,

wherein one or more layers of said layers are inclined fiber reinforced resinous layers in which reinforcing fibers are oriented at angles not 0° and 90° with respect to an axis of said golf club shaft and, at least one layer of said inclined fiber reinforced resinous layers is wound by an unintegral turns more than one turn so as to apply an anisotropic property to the shaft.

2. The golf club shaft according to claim 1, wherein the unintegral turns of said fiber reinforced resinous layers wound by more than one turn is $N+0.5$, where N is an integer more than 1.

3. The golf club shaft according to claim 1, wherein the inclined fiber reinforced resinous layers are a first inclined fiber reinforced resinous layer in which reinforcing fibers are oriented at an angle of α° ($0^\circ < \alpha < 90^\circ$) with respect to an axis of said golf club shaft and a second inclined fiber reinforced resinous layer in which reinforcing fibers are oriented at an angle of $-\alpha^\circ$ with respect thereto, and the second inclined fiber reinforced resinous layer is adjacently layered on said first inclined fiber reinforced resinous layer in a winding state at one

portion or more, and a winding start position of said first inclined fiber reinforced resinous layer and a winding start position of said second inclined fiber reinforced resinous layer are spaced at 180° in a circumferential direction of said golf club shaft; and said first inclined fiber reinforced resinous layer and said second inclined fiber reinforced resinous layer are wound by $N+0.5$ turns, respectively where N is an integer more than one.

4. The golf club shaft according to claim 3, wherein the first fiber reinforced resinous layer and the second fiber reinforced resinous layer are bonded to form one prepreg sheet.

5. The golf club shaft according to claim 1, wherein a part of the inclined fiber resinous layer corresponding to decimal turns obtained by subtracting integral turns from the unintegral turns forms an anisotropic region and an angle of the reinforcing fiber of the anisotropic region is different from that of other region in a circumferential direction of the shaft.

6. The golf club shaft according to claim 5, wherein the anisotropic property is applied to the shaft by the anisotropic region, so that the shaft is twisted by a flexure thereof when the shaft is swung.

7. The golf club shaft according to claim 6, wherein a face of a club head installed on the shaft is oriented to a

direction, in which a golf ball hit by a hooker or a slicer is to be flied, owing to twisting of the shaft.

8. The golf club shaft according to claim 1, wherein one or more of said fiber reinforced resinous layers have reinforcing fiber whose orientation angle is 90° and/or 0° with respect to the axis of the shaft.

9. The golf club shaft according to claim 1, wherein the fiber reinforced resinous layers are composed of prepreg sheets.

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